

Inventor(s)

Davi Geiger et al.

Serial No.

09/666,371

Filed

September 20, 2000

Entitled

METHOD AND APPARATUS FOR SEGMENTING AN IMAGE

IN ORDER TO LOCATE A PART THEREOF

Group Art Unit

2674

Examiner

Abbas L. Abdulselam

I hereby certify that this document is being deposited with the United States Postal Service as First Class Mail addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on this 18<sup>th</sup> day of February, 2005.

Gary Abelev, Reg. No. 40,479 (Signature)

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), applicants bring to the attention of the Examiner the documents listed on the attached Form PTO 1449, and respectfully request that the listed documents be considered by the Examiner and made of record in the above-captioned application. Copies of the patent references listed on the Form PTO-1449 are enclosed, except that U.S. patent references are not enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the documents as prior art against any claim in the

035431/US - 475396-00006 PATENT

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application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of the documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should the documents be applied against the claims of the present application.

This submission is being filed after the final office action for this application. In addition, applicants confirm that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. Therefore, applicants are enclosing herewith a requisite fee of \$180 pursuant to 37 C.F.R. § 1.97(d) in connection with the submission of this paper. If any additional fee is due, or if any overpayment has been made, the Commissioner is authorized to charge any such fee or credit any overpayment, to our Deposit Account No. 50-2054.

Respectfully submitted,

DORSEY & WHITNEY, LLP

Gary Abelev

PTO Reg. No. 40,479

Attorneys for Applicants

(212) 415-9371

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Form PTO-1449 U.S. Department of Comperce (REV. 2-82) Patent and Trademark Office TRADE NAME OF TRADE STATEMENT								ADEM		ocket No. /US – 475396-00	Serial No. 09/666,371							
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			Ingemar J. Cox, Satish B. Rao, and Yu Zhong, "ratio regions" a technique for image segmentation, In International Conference on Pattern Recognition, volume II, pages 557-564, 1996.															
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Date Considered

Examiner

<sup>\*</sup> Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

OIPE		Page 2 of 2						
Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office FEB 2 2 2005	Atty. Docket No. 035431/US – 475396-00006	Serial No. 09/666,371						
INFORMATION DISCLOSURE TATEMENT BY APPLICANT	Applicant(s) Davi Geiger et al.							
(Use several sheets if necessary)	Filing Date September 20, 2000	Group 2674						
Davi Geiger, Alok Gupta, Luiz A. Costa, a tracking, and matching deformable contou Intelligence, 17(3): 294-402, March 1995.	rs," IEEE Transactions on Pattern Anal	ysis and Machine						
	A. Goldberg and R. Tarjan, A new approach to the maximum flow problem. Journal of the Association for Computing Machinery, 35(4):921-940, October 1988.							
1 1 ± ±.	D. Greig, B. Porteo-ancl A. Seheult. Exact maximum a posterior estimation for binary images, Journal of the Royal Statistical Society, Series B, 51(2):271-279, 1989.							
Robert M. Haralick and Linda G. Shapiro, Company, 1992.	Robert M. Haralick and Linda G. Shapiro, Computer and Robot Vision, Addison-Wesley Publishing Company, 1992.							
	H. Islilkawa and D. Geiger, "Segmentation by grouping junctions," In IEEE Conference on Computer Vision and Pattern Recognition, pages 125-131, 1998.							
	Ian H. Jermyn and Hiroshi Ishikawa, "Globally optimal regions and boundaries," In International Conference on Computer Vision, volume II, pages 904-910, 1999.							
M. Kass, A. Witkin, and D. Terzolpoulos, Computer Vision, 2:321-331, 1988.	M. Kass, A. Witkin, and D. Terzolpoulos, Snakes: Active contour models. International Journal of Computer Vision, 2:321-331, 1988.							
	Snow et al. "Exact voxel occupancy with graph cuts", Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, vol. 1, June 2000, Pages 345-352.							
Bonneville et al. "Graph cut: application to the International Conference on Image An								
Prosecution history for Application No. 09	9/943,035 by Boykov, filed August 30,	2001.						

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Examiner	Date Considered	
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<sup>\*</sup> Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Firm

Individual name
Signature
Date

DORSEY & WHITNEY, LLP

February 18, 2005

Gary Abelev, Esq. (Reg No. 40,479)

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Underthe Paperwork Rodiction Act of 1995	no persons are required to respond Application Number	to a collection of information unless it displays a valid OMB control number.  09/666,371
TRANSMITTAL	Filing Date	September 20, 2000
FORM	First Named Invent	Davi Geiger et al.
(to be used for all correspondence after initial	**	2674
	Examiner Name	Abbas L. Abdulselam
Total Number of Pages in This Submission	Attorney Docket Nu	umber 035431/US - 475396-00006
	ENCLOSURES (Ch	eck all that apply)
Fee Transmittal Form Fee Attached  Amendment/Reply After Final Affidavits/declaration(s)  Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s)  Response to Missing Parts/ Incomplete Application  Response to Missing Parts under 37 CFR 1.52 or 1.53	Drawing(s)  Licensing-related Paper Petition Petition to Convert to Provisional Applicatio Power of Attorney, Rechange of Correspon Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)  a Proprietary Information  Status Letter  Other Enclosure(s) (please Identify below):  Form PTO 1449 with 17 references and Receipt Postcard

CERTIFICATE OF TRANSMISSION/MAILING									
I hereby certify that this c sufficient postage as first the date shown below.	correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on								
Typed or printed name	Gary Abelev, Esq.								
Signature	Date February 18, 2005								

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Effective on 12/08/04	Complete if Known					
FEB 2 2 2005	Applicat	ion No.	09/666,37	09/666,371		
FEE TRANSMITTAL SHEET	Filing Da	ate	Septemb	September 20, 2000		
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	Examine	er Name	Abbas L.	Abdulselam		
Applicant claims small entity status (see 37 C.F.R. 1.27)	Atty. Doc	ket Numb	per 035431/U	S - 475396-0000	)6	
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□ Credit Card    □ Money Order			3. ADDITION	NAL FEES		
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Deposit Account Name: DORSEY & WHITNEY LLP	Entity   Fee	Entity Fee	Fee Description		Fee paid	
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)			0			
Charge any additional fees or underpayments of fee(s) under 37 C.F.R. 1.16 and 1.17	50	25	Surcharge - late provisional filing fee or cover sheet			
☐ Credit any overpayments	130	Surcharge – Late nonprovisional filing fee or oath				
Other (please identify):	180	180	Submission of IDS	180		
Extra Claim Fees	40	40	Recording each patent assignment per property (times number of properties)			
Current Claims Prior Extra Fee Fee Paid	120	60	Extension for reply			
Total 60 - 60 = 0 x \$ = \$ Ind. 6 - 6 = 0 x	450	225		ension for reply within second month		
Multiple Dependent Claims x \$ = \$	1,020	510		within third month		
Subtotal (Extra Claims)\$	1,590	795	• •	within fourth month		
Petition Fee Under 37 CFR 1.17(f), (g), & (h)	2,160	1,080		ension for reply within fifth month		
Enclosed is a Petition filed under 37 CFR as indicated below:	790	395	• •	mission After Final 1.129		
Petition Fee under 37 CFR 1.17(f) Fee \$400	500	250	Notice of Appeal	ice of Appeal		
§ 1.53(e) to accord a filing date. § 1.57(a) to accord a filing date.	500	250	Filing a brief in su	port of an appeal		
§ 1.182 for decision on a question not provided for. § 1.183 to suspend the rules.	1,000	500	Request for oral h	•		
§ 1.378(e) for reconsideration of decision on petition refusing delayed	130	65	Terminal Disclaim	•		
payment of maintenance fee in expired patent. § 1.174(b) to accord a filing date to an application under §1.740 for extension	800	400	Design Issue Fee			
of patent term.  Petition Fee under 37 CFR 1 17(a) Fee \$200	790	395	Request for Contin	nued Examination		
Petition Fee under 37 CFR 1.17(g) Fee \$200 § 1.12 for access to an assignment record.		000	(RCE) Request for volunt	any nublication or		
§ 1.14 for access to an application. § 1.47 for filing by other than all inventors or person not the inventor.	130		republication	ary publication of		
§ 1.59 for expungement of information.	500	250	Petition to Revive	ition to Revive – unavoidable		
§ 1.136(b) for review of a request for ext. of time when §1.136(a) not avail.	1,500	750	Petition to Revive	tion to Revive – unintentional		
§ 1.295 for review of refusal to publish a statutory invention registration. § 1.296 to withdraw a req. for pub. after notice of intent to publish issued.	200	• .				
§ 1.377 for review of decision refusing to accept a maintenance fee filed prior to expiration of a patent.	400	400 Request for reinstatement of term reduced				
§ 1.550(c) for request for ext. of time in <u>ex parte</u> reexam. proceedings. § 1.956 for request for ext. of time in <u>ex parte</u> reexam. proceedings. § 5.12 for expedited handling of foreign filing license.	1,120		Extension of term	of patent		
§ 5.12 for expedited randing of foleign fining itemse. § 5.15 for changing the scope of a license. § 1.5.25 for retroactive license.	OTHER FEE (specify)					
Petition Fee under 37 CFR 1.17(h) Fee \$130			Subto	otal (Additional Fees)		
§ 1.19(g) to request documents in a form other than provided in this part. § 1.84 for accepting color drawings or photographs.	Total Amount of Payment: \$180.00					
§ 1.91 for entry of a model or exhibit. § 1.102(d) to make an application special.						
§ 1.138(c) to expressly abandon an application to avoid publication.						
§ 1.313 to withdraw an application from issue. § 1.314 to defer issuance of a patent.						
Submitted by:	1					
CUSTOMER NUMBER DORSEY & WHITNEY LLP 30873	- !	0 Park A				
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Name: Gary Abelev, Esq.			12-415-9371	Fax No.: 212-953-		
Signature	Beg	3. No.: 40	,479	Date: February 1	გ, 2005 ————	